

# 2015 EFCOG/DOE Electrical Safety Workshop

## Lawrence Livermore National Laboratory

Point of Contact: Bill DeHope [dehope1@llnl.gov](mailto:dehope1@llnl.gov) 925-424-6413  
Eileen Stankus [stankus1@llnl.gov](mailto:stankus1@llnl.gov) 925-424-3967

### Sunday, July 12<sup>th</sup>

4:00 p.m. – 8:00 p.m. LLNL Badging & Mixer, Courtyard Marriott, 2929 Constitution Dr., Livermore (no-host bar)

### Monday, July 13<sup>th</sup>

7:00 a.m. B543 Auditorium  
Badging for late arrivals, *West Gate (main) Badge Office, Vasco Road*  
8:30 a.m. Informal gathering and greetings, *Auditorium Foyer B543 R1000*  
9:00 a.m. EFCOG Welcome – Heath Garrison, 2015 EFCOG ESG Chair  
9:15 a.m. Livermore Field Office Welcome – Nicole Nelson-Jean, LFO Site Manager  
9:30 a.m. LLNL Welcome – Bill Goldstein, LLNL Lab Director  
9:45 a.m. Facility details and Workshop Preliminaries – Bill DeHope, LLNL 2015 Workshop Host

*10:00 a.m. Morning Break*

10:15 a.m. Overview of Plenary Talks – Richard Waters, 2015 EFCOG ESG Vice-Chair  
10:30 a.m. The LANL Arc Flash Event – Jeff Williams, NNSA; Lloyd Gordon, LANL; & Gary Dreifuerst, LLNL Retired  
11:30 a.m. Electrical Safety from a Union Standpoint – Byron Benton & Dan Chivello, IBEW Local 595 Joint Apprenticeship Training Committee (JATC)

*Noon Lunch at local restaurants or cafeterias*

1:30 p.m. IEEE 1584 Update – Jim Phillips, Brainfiller  
2:00 p.m. Arc Flash DC Experimental Status – Steve Cress, Kinetrix & Hugh Hoagland, ArcWear  
2:30 p.m. 2018 70E and the Benefits of Certified PPE – Steve Corrado, UL

*3:00 p.m. Afternoon Break*

3:20 p.m. Outlook from DOE, speaker TBD  
3:40 p.m. Defense Nuclear Facilities Safety Board Outlook – Peter Foster, DNFSB  
4:00 p.m. Office of Enforcement: Data and Trends - Kevin Dressman, OE  
4:30 p.m. Audit Teams: A Proposal – Mark Scott, LBL  
4:45 p.m. Downstream Electrical Safety Effects of Subcontractor Building Constructions – Lloyd Gordon  
5:15 p.m. Day's End/Closing

### Tuesday, July 14<sup>th</sup>

(Informal Break at 3:00 p.m.)  
8:00 a.m. Risk Management and 70E – Daniel Roberts, Schneider Electric  
8:30 a.m. Working Group Status from last year: Overview – Lloyd Gordon, WG Chair  
9:15 a.m. DC Systems – Gary Dreifuerst, LLNL Retired  
9:45 a.m. Compensatory Measures for AF Hazards – Greg Christensen, 2014 EFCOG ESG Chair

*10:15 a.m. Morning Break*

10:30 a.m. AHJ Program Descriptions and Reciprocity – Jim Watson, LLNL  
11:00 a.m. Hazardous Energy Control – Gerald Kinz, Hanford/MSA  
11:30 a.m. Introduction and Commissioning of new WG's – Lloyd Gordon, WG Chair

*Noon. Lunch at local restaurants or cafeterias*

1:30 p.m.	Working Group 1 – DC Systems <i>Location TBD</i>
1: 30 p.m.	Working Group 2 – Hazardous Energy Control <i>Location TBD</i>
1: 30 p.m.	Working Group 3 – Electrical Safety, Medium Voltage, & Subcontractors <i>Location TBD</i>
1: 30 p.m.	Working Group 4 – AHJ Program Descriptions, Issues & Reciprocity <i>Location TBD</i>
1: 30 p.m.	Working Group 5 – Risk Assessment per 70E-2015 <i>Location TBD</i>
5:00 p.m.	Day's End/Closing (all Working Groups)

**Wednesday, July 15<sup>th</sup>** (Informal Breaks at 10:00 a.m. and 3:00 p.m.)

8:00 a.m.	Working Group 1 – DC Systems <i>Location TBD</i>
8:00 a.m.	Working Group 2 – Hazardous Energy Control <i>Location TBD</i>
8:00 a.m.	Working Group 3 – Electrical Safety, Medium Voltage, & Subcontractors <i>Location TBD</i>
8:00 a.m.	Working Group 4 – AH Program descriptions, issues & reciprocity <i>Location TBD</i>
8:00 a.m.	Working Group 5 – Risk Assessment per 70E-2015 <i>Location TBD</i>

*Noon Lunch at offsite restaurants or cafeterias*

1:30 p.m.	Working Group 1 – DC Systems <i>Location TBD</i>
1:30 p.m.	Working Group 2 – Hazardous Energy Control <i>Location TBD</i>
1:30 p.m.	Working Group 3 – Electrical Safety, Medium Voltage, & Subcontractors <i>Location TBD</i>
1:30 p.m.	Working Group 4 – AH Program descriptions, issues & reciprocity <i>Location TBD</i>
1:30 p.m.	Working Group 5 – Risk Assessment per 70E-2015 <i>Location TBD</i>
5:00 p.m.	Day's End/Closing (all Working Groups)

6:00 p.m.	Buffet dinner, local winery TBD Prepay ~\$80 on Sunday or Monday
-----------	--

**Thursday, July 16<sup>th</sup>**

(Informal Break at 10:00 a.m.)

8:00 a.m.	Working Group 1 – DC Systems <i>Location TBD</i>
8:00 a.m.	Working Group 2 – Hazardous Energy Control <i>Location TBD</i>
8:00 a.m.	Working Group 3 – Electrical Safety, Medium Voltage, & Subcontractors <i>Location TBD</i>
8:00 a.m.	Working Group 4 – AHJ Program descriptions, issues & reciprocity <i>Location TBD</i>
8:00 a.m.	Working Group 5 – Risk Assessment per 70E-2015 <i>Location TBD</i>

*11:30 a.m. Lunch at local restaurants or cafeterias*

1:00 p.m.	Summary Presentation – Working Group 1 <i>B543 Auditorium</i>
1:30 p.m.	Summary Presentation – Working Group 2 <i>B543 Auditorium</i>
2:00 p.m.	Summary Presentation – Working Group 3 <i>B543 Auditorium</i>

*2:30 p.m. Mid Afternoon Break*

2:45 p.m.	Summary Presentation – Working Group 4 <i>B543 Auditorium</i>
3:15 p.m.	Summary Presentation – Working Group 5 <i>B543 Auditorium</i>
3:45 p.m.	Working Group Summary/Conclusion – Lloyd Gordon, WG Chair, LANL
4:15 p.m.	Conclusion of workshop – Heath Garrison, 2015 EFCOG Chair
4:30 p.m.	Dismissal

**Friday, July 17<sup>th</sup>**

9:30 a.m.	NIF Tour – Meet in B543 Foyer
2:00 p.m.	HEAF Tour – Meet in B543 Foyer